UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---------------------|--|----------------------|-----------------------|------------------|--|
| 10/519,408 | 01/05/2005 | Junya Maruyama | 263861US3PCT | 9967 | |
| | 22850 7590 01/22/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. | | | EXAMINER | |
| 1940 DUKE STREET | | JOHNSON, STEPHEN | STEPHEN | | |
| ALEXANDRIA, | VA 22314 | | ART UNIT PAPER NUMBER | | |
| | • | | 3641 | | |
| | | | | | |
| SHORTENED STATUTORY | PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | | |
| 3 MON | THS | 01/22/2007 | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | Application No. | Applicant(s) | | | |
|--|--|--------------------------------|--|--|--|
| .' | 10/519,408 | MARUYAMA ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Stephen M. Johnson | 3641 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | |
| Status | | | | | |
| 1)⊠ Responsive to communication(s) filed on 23 Oc | ctober 20 <u>06</u> . | | | | |
| | action is non-final. | | | | |
| 3) Since this application is in condition for allowar | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 3 O.G. 213. | | | |
| Disposition of Claims | | | | | |
| 4)⊠ Claim(s) <u>1-3 and 6</u> is/are pending in the applica | ation. | | | | |
| 4a) Of the above claim(s) is/are withdraw | | | | | |
| 5) Claim(s) is/are allowed. | * | | | | |
| 6)⊠ Claim(s) <u>1,2 and 6</u> is/are rejected. | | | | | |
| 7)⊠ Claim(s) <u>3</u> is/are objected to. | | • | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examine | r. | | | | |
| 10)⊠ The drawing(s) filed on <u>05 January 2005</u> is/are: | | to by the Examiner. | | | |
| Applicant may not request that any objection to the | | | | | |
| Replacement drawing sheet(s) including the correct | ion is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | |
| Priority under 35 U.S.C. § 119 | | • | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | |
| Copies of the certified copies of the prior application from the International Bureau | | id in this National Stage | | | |
| * See the attached detailed Office action for a list | * ** | ed. | | | |
| and the second second second to a list | | | | | |
| | | | | | |
| Attachment(s) | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/2006. 5) Notice of Informal Patent Application 6) Other: | | | | | |

Application/Control Number: 10/519,408

Art Unit: 3641

1. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 6, lines 1-2, use of the phrase "a tapered portion" makes the claim indefinite as to what structural item is intended to have a tapered portion. In claim 6, line 3, the term "the closing plug of the squib" lacks complete agreement with its antecedent. In claim 6, lines 4-6, applicant claims "a bottom portion of the tapered portion, wherein the bottom portion has the holes for allowing passage of the electrode pins". This makes the claim indefinite. Note that the tapered portion 8 does not include a bottom portion having holes for the passage of the electrodes. The portion of holder 6 that contains these passages 13 and 14 is not a part of the tapered portion 8.

2. The drawings are objected to because figs. 3 and 4(a) should be labeled as prior art because they were described in the written description as being conventional in this art (see page 1, line 23-page3, line 5). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after

Page 3

Application/Control Number: 10/519,408

Art Unit: 3641

the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nippon KKK (WO 01/51192 A1) in view of Narumi et al. (EP 1 043 201 A2).

Nippon KKK discloses a gas generator comprising:

| a) a first cup case; | 10 |
|--|----------|
| b) a gas generant; | 14 |
| c) a squib; | 12 |
| d) a second cup case; | E |
| e) a contained ignition charge; | D |
| f) a squib case; | 32 |
| g) a hole in a squib case; | 27 or 40 |
| h) a holder (material type unknown); | 31, 11 |
| i) a crimp for holding a closing plug; | 31b |
| j) a closing plug; | В |
| k) a tapered portion of the holder; | 31c |

Page 4

Application/Control Number: 10/519,408

Art Unit: 3641

1) a crimp for holding the first cup case; 31a

m) a bottom portion of the holder; 11 or item between 11 and 31

n) first and second holes; holes in 11 or item between

11 and 31 that contain A

Α

o) electrodes; and

p) cross-section of 2-10 times the area. see explanation

With regard to the cross-sectional areas, note that many different cross-sectional areas are taught by Nippon KKK dependent upon where the cross-section is taken and how the cross-section is taken. This is in regard to both the cross-sectional area of the electrode pin as well as the cross-sectional area of the first and second holes. Consequently, many different cross-sectional areas are inherently taught by Nippon KKK including from 2-10 times as claimed.

Nippon KKK applies as recited above. Narumi et al. teach a gas generator holder that consists of metal (1, 20, paras. [0014] and [0018]). Applicant is selecting a material type for a gas generator holder and substituting this material type in an analogous art setting. It would have been obvious to a person of ordinary skill in this art at the time of the invention to apply the teachings of Narumi et al. to the Nippon KKK gas generator and have a gas generator holder composed of a metal material type.

- 5. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Applicant's arguments with respect to claims 1-2 and 6 have been considered but are moot in view of the new ground(s) of rejection.

Application/Control Number: 10/519,408

Art Unit: 3641

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Johnson whose telephone number is 571-272-6877 and whose e-mail address is (Stephen.Johnson@uspto.gov). The examiner can normally be reached on Tuesday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The Central FAX phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 800-786-9199.

Application/Control Number: 10/519,408

Art Unit: 3641

There lan

STEPHEN M. JOHNSON PRIMARY EXAMINER

SMJ January 18, 2007 Stephen M. Johnson Primary Examiner Art Unit 3641